

CLAIMS:

1. An LED (light emitting diode) light, comprising:
 - (a) an LED light source;
 - (b) a thermoelectric device onto which said LED light source is mounted;
 - (c) a thermoelectric device controller configured to control said thermoelectric device to maintain said LED light source within a predetermined temperature range; and
 - (d) control circuitry configured to provide a pulse signal to said LED light source.
2. The LED light according to claim 1, further comprising:
 - (e) a temperature sensor configured to sense a temperature at at least a portion of said LED light source.
3. The LED light according to claim 1, further comprising:
 - (e) a modulation control configured to control the pulse signal provided to said LED light source.
4. The LED light according to claim 2, further comprising:
 - (f) a modulation control configured to control the pulse signal provided to said LED light source.
5. The LED light according to claim 1, further comprising:
 - (e) an optical feedback controller configured to provide a control signal to said thermoelectric device controller.
6. The LED light according to claim 2, further comprising:
 - (f) an optical feedback controller configured to provide a control signal to said thermoelectric device controller.
7. The LED light according to claim 3, further comprising:
 - (f) an optical feedback controller configured to provide a control signal to said thermoelectric device controller.
8. The LED light according to claim 4, further comprising:

(g) an optical feedback controller configured to provide a control signal to said thermoelectric device controller.

9. The LED light according to claim 1, wherein said control circuitry comprises:
(c1) a variable pulse height regulator configured to provide a variable pulse height signal to said LED light source;
(c2) a solid state switch configured to provide a control of said variable pulse height regulator; and
(c3) a timer circuit configured to provide a control of said solid state switch.

10. An LED (light emitting diode) light, comprising:
(a) an LED light source;
(b) a thermoelectric device onto which said LED light source is mounted;
(c) thermoelectric device control means for controlling said thermoelectric device for maintaining said LED light source within a predetermined temperature range; and
(d) control means for providing a pulse signal to said LED light source.

11. The LED light according to claim 10, further comprising:
(e) means for sensing a temperature at at least a portion of said LED light source.

12. The LED light according to claim 10, further comprising:
(e) means for controlling the pulse signal provided to said LED light source.

13. The LED light according to claim 11, further comprising:
(f) means for controlling the pulse signal provided to said LED light source.

14. The LED light according to claim 10, further comprising:
(e) optical feedback control means for providing a control signal for controlling said thermoelectric device control means.

15. The LED light according to claim 11, further comprising:
(f) optical feedback control means for providing a control signal for controlling said thermoelectric device control means.

16. The LED light according to claim 12, further comprising:
(f) optical feedback control means for providing a control signal for controlling said thermoelectric device control means.

17. The LED light according to claim 13, further comprising:
(g) optical feedback control means for providing a control signal for controlling said thermoelectric device control means.

18. The LED light according to claim 10, wherein said control means comprises:
(c1) first means for providing a variable pulse height signal to said LED light source;
(c2) second means for controlling said first means; and
(c3) third means for controlling said second means.

19. An obstruction light comprising:
(a) a first strobe light source for outputting strobe light of a first color;
(b) an LED (light emitting diode) strobe light for outputting light of a second color,
and comprising:
(b1) an LED light source;
(b2) a thermoelectric device onto which said LED light source is mounted;
(b3) a thermoelectric device controller configured to control said thermoelectric device to maintain said LED light source within a predetermined temperature range; and
(b4) control circuitry configured to provide a pulse signal to said LED light source.

20. The obstruction light according to claim 19, wherein said LED strobe light further comprises:
(b5) a temperature sensor configured to sense a temperature at at least a portion of said LED light source.

21. The obstruction light according to claim 19, wherein said LED strobe light further comprises:
(b5) a modulation control configured to control the pulse signal provided to said LED light source.

22. The obstruction light according to claim 20, wherein said LED strobe light further comprises:

(b6) a modulation control configured to control the pulse signal provided to said LED light source.

23. The obstruction light according to claim 19, wherein said LED strobe light further comprises:

(b5) an optical feedback controller configured to provide a control signal to said thermoelectric device controller.

24. The obstruction light according to claim 20, wherein said LED strobe light further comprises:

(b6) an optical feedback controller configured to provide a control signal to said thermoelectric device controller.

25. The obstruction light according to claim 21, wherein said LED strobe light further comprises:

(b6) an optical feedback controller configured to provide a control signal to said thermoelectric device controller.

26. The obstruction light according to claim 22, wherein said LED strobe light further comprises:

(b7) an optical feedback controller configured to provide a control signal to said thermoelectric device controller.

27. The obstruction light according to claim 19; wherein said control circuitry (b4) comprises:

(c1) a variable pulse height regulator configured to provide a variable pulse height signal to said LED light source;

(c2) a solid state switch configured to provide a control of said variable pulse height regulator; and

(c3) a timer circuit configured to provide a control of said solid state switch.

28. An obstruction light comprising:
- (a) a first strobe light source for outputting light of a first color;
 - (b) an LED (light emitting diode) strobe light for outputting light of a second color,
- and comprising:
- (b1) an LED light source;
 - (b2) a thermoelectric device onto which said LED light source is mounted;
 - (b3) thermoelectric device control means for controlling said thermoelectric device for maintaining said LED light source within a predetermined temperature range; and
 - (b4) control means for providing a pulse signal to said LED light source.
29. The obstruction light according to claim 28, wherein said LED strobe light further comprises:
- (b5) means for sensing a temperature at at least a portion of said LED light source.
30. The obstruction light according to claim 28, wherein said LED strobe light further comprises:
- (b5) means for controlling the pulse signal provided to said LED light source.
31. The obstruction light according to claim 29, wherein said LED strobe light further comprises:
- (b6) means for controlling the pulse signal provided to said LED light source.
32. The obstruction light according to claim 28, wherein said LED strobe light further comprises:
- (b5) optical feedback control means for providing a control signal for controlling said thermoelectric device control means.
33. The obstruction light according to claim 29, wherein said LED strobe light further comprises:
- (b6) optical feedback control means for providing a control signal for controlling said thermoelectric device control means.

34. The LED light according to claim 30, wherein said LED strobe light further comprises:

(b6) optical feedback control means for providing a control signal for controlling said thermoelectric device control means.

35. The LED light according to claim 31, wherein said LED strobe light further comprises:

(b7) optical feedback control means for providing a control signal for controlling said thermoelectric device control means.

36. The obstruction light according to claim 28, wherein said control means (b4) comprises:

(c1) first means for providing a variable pulse height signal to said LED light source;

(c2) second means for controlling said first means; and

(c3) third means for controlling said second means.